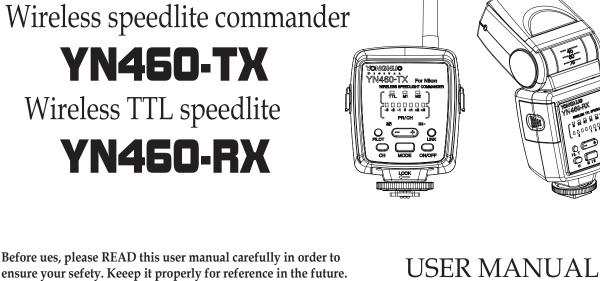


YN460-TX Wireless TTL speedlite







I. Warning

To avoid fire or electrical shock, do not expose this product to rain or moisture.

Please take out the batteries and stop using immediately in case of below.

It achieves the remote wireless flash control with the maximum distance of 200m.

supports the synchronous rear-curtain. Vast-distance wireless flash control

use in the complex environment

To avoid possible injury to eyes, do not use the flash light in a short distance from the eyes.

To avoid possible safety accident, do not use the flash light on the people who need a high degree of attention.

To complete the shooting, a set of YN460-TX will be needed at least to support with YN460-RX, which should be noted when purchasing.

• This product is dropped or shocked seriously and the inner part of the product is bared. • If the battery leaks corrosive liquids, please take out the battery with gloves. The product gives off strange smell, smokes or heats. Do not disassemble or maintain this product. Touching the internal high voltage circuit will cause electric shock. Remove batteries during long periods of non-use.

To avoid short circuit, be sure the batteries contacts are securely packed and in accordance with local provision when handling the batteries. Please place the batteries and the parts which can be swallowed mistakenly away from children. Contact a doctor immediately when it occurs.

II. Features YN460-TX and YN460-RX is a set of new 2.4G wireless TTL flash system, the characteristics of which is as follows:

 2.4G wireless TTL flash supported 2.4G wireless TTL flash has been achieved to help you seize every precious moment.

 Multiple wireless flash control supported YONGNUO design a TTL group and two M groups for the wireless flash system, every group can be adjusted output level independently. Remote Power Control on YN460-TX

will increase by more than 60%.

It's easy to control the output level of wireless speedlites on YN460-TX, so you won't move back and forth between camera and speedlites, the efficiency • Rear-curtain supported as well as FEC, FEB • Two PC ports for synchronous I/O

• Support for up to 16 YN460-RX speed lights A YN460-TX can make 16 YN460-RX speedlites flash at the same time, which can provide the better creativity, achieving the speedlights applied in large-scale night illumination.

 Flash management function The YN460-TX has flash management function, which enables you to turn on or turn off each of YN460-RX (first 7 RX paired to the TX) remotely. This function helps you to confirm the lighting effect of each YN460-RX. III. Quick Start

If you don't have much time to read the whole user manual, we advise you to read this section. 1. Wireless connection pairing You need to make the wireless connection pairing for the YN460-TX and the YN460-RX before the first usage as follows: Turn on the YN460-TX and the YN460-RX at the same time, meanwhile press the CH button and hold on for about 5 seconds.

2. How to use as wireless TTL lighting Set the YN460-RX to WT group and connect the YN460-TX to the camera. Now, the YN460-RX becomes a wireless TTL speedlite and you can start to shoot. 3. How to use as 2 groups of remote controllable manual speedlites Set one YN460-RX to M1 group and another to M2 group, connect the YN460-TX to the camera, and then the output level of the M1 and M2 groups can be set on the YN460-TX. You can control 2 YN460-RXs' output level separately! 4. How to set YN460-RX's group on YN460-TX Set YN460-RX to WX group and the actual YN460-RX group will keep the same as the last group of the YN460-TX.

5. Abnormal situation: If there is abnormality, please turn off the YN460-TX and YN460-RX and then turn on again, try to re-make the wireless connection pairing. For any additional abnormality, you can re-set the YN460-TX by pressing the MODE + CH button and hold for about 10 seconds. IV. Nomenclature

YN460-TX (Hereinafter referred to as TX) 1. Antenna 2. Antenna interface 3. PC port (for input and connecting with the camera only) 4. PC port (for output and connecting with the speedlite only)

6. Battery chamber's cover 7. Locking ring 8. Hot shoe stand 9. Hot shoe contact

-2-Group indicator: It indicates the current flash group(TTL,M1,M2). 11. Output level/Channel indicator: The flash brightness or exposure compensation will be indicated when setting the output power; and the

13. Charging indicator/test button: It indicates the current charging state, and it can also test **14.** Channel switch button: The channels will switch among the 1~7 in circle for each press. 15. Rear-curtain switch indicator: A long time-lighting indicates that the Rear-curtain sync is opened, a long time non-lighting indicates that the Rear-curtain sync is closed. **16. Power switch button:** You can adjust the output level by setting[+],[-] button. 17. Wireless link indicator: It indicates the current status of wireless connection; and it will blink slowly when sleep. **18. Power switch:** Power can be opened or closed by holding this button for 2 seconds.

number of current channel will be indicated when setting the channel.

and a long time non-lighting indicates that the AF LED is turned off.

YN460-RX (Hereinafter referred to as RX)

28. Group indicator: It indicates the current flash group(M,WX,WT,M1,M2).

and the number of current channel will be indicated when setting the channel.

31. Channel switch button: The channels will switch among 1~7 in circle for each press. **32. Power switch button:** You can adjust the output level by setting[+],[-] button **33. Wireless link indicator:** It indicates the current status of wireless connection; and it

34. Power switch: Power can be opened or closed by holding this button for 2 seconds.

20. Reflection board 21. Wide-angle diffuser

will flash slowly when sleep.

2. Mount the TX on your camera

VI. Basic Functions 1. Basic Operations Operation of the buttons:

Component

[Power Switch]

[MODE Button]

[CH Button]

[Test Button]

[+] and [-] Button

[MODE Button]+[+]

Meaning of [Output level indicator]

State of [Output level indicator]

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Fast blinking

Slow blinking

A long-time

2. Power-on and Power-off

9. Power-saving Mode

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pairing successfully. 4. Rear-curtain Sync

5. Exposure Compensation

6. Exposure Bracketing (FEB)

you to confirm the lighting effect of each RX.

7. Flash Management

8. Application of AF LED

and more natural.

• 1*TX+1*RX

wireless TTL speedlite.

the pre-set brightness.

speedlites in the right position.

building behind the persons.

IX. Specifications

The number of controlled RX

Range of wireless transmission

YN460-TX Flash control group

Power

Power Saving

Dimensions Net weight Accessories

Net weight

Accessories

X. Trouble shooting

Please replace new batteries.

1. RX can't flash

Additional features

Metering system Wireless frequency band

Wireless channels

responsible for lighting the persons.

responsible for the wall behind the persons.

1. Wireless TTL lighting application

2. Photography of meeting and wedding • 1*TX+1*RX@WT+1*RX@M1+1*RX@M2

And then place the TX and RX in the right position.

• 1*TX + 4*RX@WT + 4*RX@M1 + 8*RX@M2

First, make the connection pairing respectively for the TX and RX.

3. Application of large-scale nighttime lighting flash

between pre-curtain sync and rear-curtain sync for each press.

This function helps you improve the success rate of photo taking.

to assist in the camera's focusing so as to achieve accurate focusing.

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represents <ON> state of indicator's light, while 0 represents <OFF> state

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State of indicator

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out after the power is closed through this button.

lighting

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0

Slide the batteries chamber's cover in the direction of the arrow. Insert the batteries according to the label inside battery chamber. Make sure the direction of the batteries' polarity is correct. Close the battery chamber cover in the direction of the arrow.

Loosen the locking ring by turning it in the direction of the arrow. Slip the TX's hot shoe stand into the camera hot shoe stand until it stops.

To detach the TX, loosen the locking ring by turning it in the opposite direction

Scope of

TX/RX

TX/RX

TX/RX

TX/RX

TX/RX

TX

represents <ON> state of indicator's light, while () represents <OFF> state

0

0

0

0

0

RX is under the Channel Search.

TX or RX is in the Sleep state.

RX, you can make the flash operation.

After completing the connection pairing between TX and

Exposure Compensation

-3ev

-2ev

-1ev

0ev

+1ev

+2ev

+3ev

TTL(TX)/WT(RX) group for exposure compensation

Application

TTL/M1/M2

M/WX/ WT/ M1/M2

Turn the locking ring in the direction of the arrow tighten.

22. Flash light's head 23. Battery chamber's cover 24. Wireless receiving module 25. Locking ring 26. Hot shoe stand 27. Hot shoe contact

-3-

29. Output level/Channel indicator: The flash brightness or exposure compensation will be indicated when setting the output power;

30. Charging indicator/test button: It indicates the current charging state, and it can also test the flash if you press this button.

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35. Group switch button: You can set the wireless flash control groups with this button. V. Installation Instruction 1. Install Batteries Slide the batteries chamber's cover in the direction of the arrow. Push down the ribbon at the bottom of battery compartment in order to remove the batteries. Insert the batteries according to the label inside battery chamber. Make sure the direction of the batteries' polarity is correct. At first, install two batteries in the interior of battery compartment. You can pull the ribbon to remove all the batteries Close the battery chamber cover in the direction of the arrow.

Note: The wireless speedlites RX corresponding with TX can be placed in your desired location by use of the mini-size base 3. Install Antenna Install the antenna in the TX antenna interface, and tighten it clockwise; and after using it, for facilitating the storage, you can rotate it counterclockwise

-5-Please press the [Mode Button] first for a while and then press [-]. The switch of the focus light [MODE Button]+[-] TXwill open or close for each press on TX. Please press the [Mode Button] first for a while and then press [PILOT] on TX. The group indicators [MODE Button]+[PILOT] will blink and the flash system go into flash management setting state (please read The Advanced TXApplication for detail use method).

compensation or flash brightness.

rear-curtain sync for each press on TX.

Make a long press of [+] or [-] button to continuously adjust the exposure

It is only available for the version of Canon. Please press the [MODE Button] first for a

M/M1/M2/WX group for output power control

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c. Try to change the communication channel. d. Try to make the wireless connection pairing again. Press any button or make a half press of the Shutter

Normal

button to wake up.

State of [Output level indicator]

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Output level

1/64

1/32

1/16

1/8

1/4

1/2

1/1

while and then press [+]. The speedlight will switch between pre-curtain sync and

	LOT] and [LINK] indicator	
	[PILOT] indicator	
Status	Meaning	Operation
A long-time off	It has not been fully charged or it is in the sleep state.	Waiting for the completion of charging or press any button to wake up.
A long-time lighting	It is fully charged, and can be used	Normal
Blinking	The flash light is locked to prevent overheating due to frequent flashing.	Wait for about 3 minutes to cool the flash light.
	[LINK] indicator	
Status	Meaning	Operation
A long-time off	Not connected between TX and RX	The wireless connection pairing is needed.
		a. Check whether the power of TX is turned off. b. Check whether the RX is beyond the control of TX.

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has realized the wireless connects successfully between TX and RX, and you can make the flash operation.
4. Settings Channel You can set the different communication channels by the [CH] button of TX or RX panel, and there are seven channels to be chosen; Press the [CH] button on the panel, and the indicator for output control will flash, displaying the current channel, and then press the [CH] button again to switch to the next channel. Thus, if the channel that is being used is disturbed, you can switch to other channels in order to effectively avoid radio interference from the outside. Note: When changing channels on the RX, please make sure the communication between TX and camera is normal, and TX must be close to the range of RX.
5. Group and Brightness Settings of YN460-TX ■ In the TTL Group state, you can adjust the flashing exposure compensation with the range of -3ev~+3ev by [+] and [-], taking the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning. ■ In the M1/M2 Group state, you can adjust the flashing output control with the range of 1/64~1/1 by [+] and [-], taking the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning. Note: During fine-tuning the flash exposure compensation or flash brightness, if the output indicator blinks, it shows that it is taking 1/3 or 2/3-level as the amount of fine-tuning to increase or decrease. For canon version, the compensation setting of TX will override the exposure compensation setting on the camera.
 6. Group and Brightness Settings of YN460-RX In the M Group state, RX wireless control is turned off, and it will be used only as the manual speedlite under the 7-level brightness control (1/64~1/1), and there are a total of 19-level fine-tuning. In the WX Group state, the group selection of RX will be entirely subordinate to the group settings of TX, that is to say, when the group settings of TX is switched in the TTL/M1/M2 cycle, the actual group selection of RX will be switched in the WT/M1/M2 cycle; and the WX indicator will light up at the same time with WT/M1/M2
11 11 11 11 11 11 11 11 11 11 11 11 11

• In the WT Group state, you can adjust the flashing exposure compensation with the range of $-3\text{ev} \sim +3\text{ev}$ by [+] and [-], taking

-8-

the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning.

You can test flashing respectively on the YN460-TX and YN460-RX. After powering on the TX and RX and making the connection pairing, press the [TEST] button to test whether the flashing is normal. In any group, press the [TEST] button, and then the speedlite will give the different brightness according to the selected output power.

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To save power, YONGNUO designs the power-saving mode for the YN460-TX and YN460-RX. Under the default state, if TX and RX are idle for about 30 seconds, they will go into the Sleep state, and if idle for 60 minutes, they will shut down automatically. In the Sleep state, you can press any button or make a half press of the Shutter button to wake up. To facilitate controlling the time during the lighting process, you can also adjust the power-saving mode as you like. Adjustment method is: first, press and hold the [MODE] button, and then press the [ON/OFF] button, at this time, the indicators of output power will light up in pairs. Press the [ON/OFF], and the indicator will show the current settings of power-saving mode, and press it again to switch into the next mode. The power-saving mode indicated by the indicator

Application of setting power saving mode

automatically shut down the machine (default)

automatically shut down the machine

shutdown function disabled

shutdown function disabled

Power saving mode Keeping idle for 30 seconds will enter the dormancy and 30 minutes will

Keeping idle for 30 seconds will enter the dormancy and 60 minutes will

Keeping idle for 30 seconds will enter the dormancy and 5 hours will

Keeping idle for 30 seconds will enter the dormancy and the automatic

Keeping idle for 5 minutes will enter the dormancy and 30 minutes will

Keeping idle for 5 minutes will enter the dormancy and 60 minutes will

Keeping idle for 5 minutes will enter the dormancy and 5 hours will

Keeping idle for 5 minutes will enter the dormancy and the automatic

VII. The Advanced Application 1. Ultra-long-range Wireless Control The distance of wireless flash control can be up to 200 meters. At the outdoor, to ensure the success of wireless remote flash control, please pay attention to the following aspects: • Any obstacle can't be found between the transmitter and receiver because it will block the transmission of wireless signal. • Please erect the antenna on the transmitting terminal, which is more conductive to the emission of wireless signal. • Please erect the body of the machine on the receiving terminal, and try to make the receivingmodule of speedlite towards the transmitting terminal as possible (you can rotate the flash light's head of RX for this purpose). • Try to change channel settings to select the best suited to your current use. Note: This function not only be applicable to Canon, Nikon cameras, but also applicable to other brands of cameras. 2. The fine tuning function of output power YN460-TX and YN460-RX have the fine-tuning function of output power, by which you can make a more subtle adjustment for the flashing output. There is the 1/3-level amount of increase or decrease for each exposure compensation or flashing brightness, and there is a total of 19-level fine-tuning. During fine-tuning the flash exposure compensation or flash brightness, if the output indicator blinks, it shows that it is taking 1/3 or 2/3-level as the amount of fine-tuning to increase or decrease. Note: The exposure compensation of TX and RX can be superimposed. 3. Release the connection pairing If the RX is lost or damaged, or your TX is second-hand, the TX is needed to release all the connection pairing.

The methods of releasing the connection pairing: first, press and hold the [MODE] button, and then make a long press of [CH] button,

If multiple RX controlled on TX, each RX can be release the connection pairing by itself independently through the same operation methods, and does not effect the use of other RX, all the group indicator on RX will light on, indicating it has released the connection

You can use slow-speed shutter to produce trailing smear for the object and the flash light will flash at the moment when the shutter is going to be shut, which means the rear-curtain sync function .(For the rear-curtain sync setting, refer to your camera manual for setting) The methods of setting on the TX: Please press the [MODE] button for a while and then press [+] button. The speed light will switch

Note: Rear-curtain Sync on the TX is applicable for only the Canon version, and it should be set on the camera for Nikon version.

your requirements. (For Canon version, the exposure compensation function on camera is available only in TTL mode)

Note: For canon version, this compensation setting will override the exposure compensation setting on the camera.

±3ev, with the precision of 1/3ev. The exposure compensation of TX and RX can be superimposed.

the selected RX is turned on while wireless link indicator goes out indicate the selected RX is turn off.

You can use the exposure compensation function of this camera to compensate flash output so as to make shooting effect better meet

In the TTL group of TX or RX, you can also make compensation of flash brightness with the [Output control knob] within the range of

The FEB function is set on the camera. For the specific setting method, refer to your Camera Instructions. After the FEB is set, after 3 photos are taken, exposure compensation will be made automatically in the sequence of, for example, "normal → under → over".

If multiple RX controlled on TX, in this case, you manage the working status of each flash through settings on TX. This function helps

The setting methods: Press the [MODE] button for a while and then press [PILOT] button, the group indicators blink and the flash system go into flash management setting status; the output power indicators light up at the same time to indicate the number of the current RX. Press [+][-] button, corresponding position of the output power indicator will blink and indicate you has selected the appropriate RX. In this moment, you can turn on or turn off the appropriate through pressing the [ON/OFF] button. Wireless link indicator light indicates

If the object or environment lacks sufficient light, the camera can not conduct accurate focusing; at this time, the TX can give out AF light

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The AF light function will be switched on/off on the TX, the setting method: Press the [MODE Button] for a while and then press [-].

and the output level indicator will flash until all the indicators light up, indicating the connection pairing has been released.

The AF light function will be switched on or off for each press. Note: Assist focus functions of camera and TX must be open while you use the AF LED. AF-L, refer to your camera manual) 10.FE Lock (Canon) to your Camera Instructions.) 11. Reflection Flash Bounce flash means to take photos by making flash light head aimed at wall or ceiling andusing the light reflected back from the ceiling or wall to light the desired object, so that the shade behind the object can be decreased to get more natural shooting effect. If the wall or ceiling is too far, the bounce flash may be too weak to get enough exposure. The wall or ceiling should be even and white in order to get efficient reflection; if the reflection surface is not white, color cast may appear in photo. 12. Use Reflection Board to Take Photos With the reflection board flash, draw the reflection board and the wide-angle diffusion board out from the light head at the same time and then push the wide-angle diffusion board back. In such case, if this product is being used to take photos, it will produce a highlighted point on the eyes of the subject and thus make the eyes charming (catch light). This function can reach optimal effect when the flasher head is up 90°. 13. Use Wide-angle Diffuser Pull out the wide-angle diffusion board, push back the reflection board and arrange them as per the figure; in such case, the flash scopes will extent to 18 mm and the flash effect will be softer

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VIII. Shooting Examples with YN460-TX and YN460-RX

First, make the connection pairing for a set of TX/RX, and then set the WT group for RX, so that you can directly control the flashing of RX on the TX. At this time, you can takethe RX as a

You can also freely set the flashing group and output power of RX and TX; and the actual flashing output power of speedlite are equal to the total of the output powers set for the TX and RX at the

Set the WT group for one RX, and M1 and M2 groups separately for other two sets of RX.

First, make RX connected with TX one by one, and set the groups for each RX, for example, set four RX as WT group, four RX as M1 group, and eight RX as M2 group. And Place the

Take 4 TTL groups as the lighting for the persons, and place them in front of the persons,

Take 4 M1 groups as the background lighting 1, and place them behind the persons,

Take 8 M2 groups as the background lighting 2, responsible for the upper parts of the

Keep the same distance between each speedlite of TTL group and the person. If the TX and RX are tested normally, you can take the flashing photography.

> TTL, M1, M2 ETTL/iTTL

ISM 2.4GHz

assist focus 50×74×103 mm

Before shooting, please press the [TEST] button to check the readiness of TX and RX. Therefore, when shooting, the speedlite set as WT group will flash exposure according to the TTL, and the other two speedlites set as M1 and M2 groups will flash respectively with

YN460-RX Guide number Insulated Gate Bipolar Transistor (IGBT) Circuit design Flash control group M, WX, WT, M1, M2 ISM 2.4GHz Wireless frequency band Wireless channels -7~90 degrees Vertical rotation angle Horizontal rotation angle 0~270 degrees 4×AAsize batteries (Alkaline or Ni-MH are usable) Power Power saving Shrinking power-saving mode (Under the default, it will automatically sleep if standing idle for 30 seconds, and automatically power off if standing idle for 60 minutes). Lighting times 100~1500 times (AA alkaline cell used) Recycle time approx 5s (AA alkaline cell used) Color temperature 5600k 1/800s~1/20000s Flash time

Flash light (1), protecting bag (1), mini stand (1) and manual (1)

Before using it for the first time, make a longpress of [CH] button to make the connection pairing for them.

Speedlight commander (1), protecting bag (1), and manual (1)

4×AAA size batteries (Alkaline or Ni-MH are usable)

seconds, and automatically power off if standing idle for 60 minutes.)

-14-

Maximum distance of more than 200 meters (the actual distance relate to the surrounding environment)

Shrinking power-saving mode (Under the default, it will automatically sleep if standing idle for 30

Access to camera menu (for canon version only), FEC, FEB, flash management, rear-curtain sync and

Make sure that the focusing switch of TX is turned on; and whether the assist focus is needed for this camera or whether this camera supports this function, and some cameras need to focus in the center under the AF-S mode in the low-light environment. Please make sure whether the camera's settings are disabled.

• Check whether the shutter, aperture and sensitivity (ISO) of camera are set too close to the limit of flashing, or whether the exposure compensation, exposure bracketing and other settings relative with flashing are correct.

 Because of the differences among different types of cameras and the personal preference, you may meet the whole overexposure or underexposure when using this product, and so try to adjust it through the flashing

Please try to turn off the power supply of TX, RX and camera. After TX is installed on the hot shoe of camera, turn on the power supply again. If it is still unusual, please replace the batteries, release the TX

There are two PC ports, one in which is used for signal input, and the other is for the synchronous signal output. In particular, the PC port for the output also • There are seven user-configurable wireless channels that can effectively prevent the wireless interference, and maximize the reliable The wireless connection pairing is successed if all the YN460-TX and YN460-RX group indicator lights are on at the same time.

12. AF LED switch indicator: A long time-lighting indicates that the AF LED is turned on, YONGNUO YN460-TX (15) 16) 17) ON/OFF 19. Group switch button: You can set the wireless flash control groups with this button.

> 3 34

After the antenna is fixed, you can rotate the antenna to get multiple position options. When the signal is instable, you can try to turn the antenna to adjust the emission direction in order to improve the signal transmission. It is recommended that the antenna should be perpendicular to the For the RX, the wireless receiving module on the RX should be towards TX as far as possible in order to ensure normal transmission. Operation Power switch of TX or RX. The power of TX or RX can be opened or closed by holding this button for 2 seconds. It is suggested that the battery shall be taken out after the power of TX or RX is closed through this button. On the TX, if you press it every time, the groups of TX will be switched in the cycle of On the RX, if you press it every time, the groups of RX will be switched in the cycle of Meanwhile, make a long press of [CH] button to make the paired link of TX and RX. After the paired link, LINK indicator will light, applicable for flashing., make a short press of [CH] button to switch the channels. Press this button to test the radio signal transmission of TX or the output brightness of RX. In the TTL Group state, you can adjust the flash exposure compensation by this button. And in the other group statuses, you can adjust the flash brightness by this button.

Open the power of TX and RX and after the charging is completed, the charging indicator is lighting, which indicates the flash is available. If the charging is not completed within 20 seconds, the RX will automatically shutdown. Then you need to replace with new batteries. You may press the testing button PILOT to test whether the flash works normally. After use, hold the power switch for 2 seconds to power off. TX or RX will shut down automatically due to low battery. The output level indicator of TX will blink before shut down. 3. Wireless connection pairing For the new TX or RX, the wireless connection pairing is needed before using it. You can make a long press of [CH] buttons on the TX and RX panel for 5 seconds to give the wireless connection pairing, and only a RX can be given connection pairing for each time. After the connection pairing is completed, LINK indicator will light up; indicating that it has realized the wireless connects successfully between TX and RX, and you can make the flack connection.

The power of the TX or RX can be opened or closed by holding this button for 2 seconds. It is suggested that the battery shall be taken

• In the M1/M2 Group state, you can adjust the flashing output control with the range of 1/64~1/1 by [+] and [-], taking the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning. Note: The exposure compensation of TX and RX can be superimposed. 7. Control Relation Between TX Group and RX Group Actual Group of RX Random M WT Random WT M1Random M1 Random M2M2TTL WX WT M1 WX M1WX M2M2 Note: When selecting the M group for the RX, the wireless control of RX will be turned off. When selecting the WT group for the RX, even if M1 or M2 group is selected for the TX, WT group of RX can normally make When selecting the M1 or M2 group for RX, even if TTL group is selected for the TX, M1 or M2 group of RX can normally flash according to the selected output power.

10. Overheating protection If the flash light is used too frequently, its overheating protection function will be triggered, the charging indicator will blink alternatively, and the flash light will be locked. In such case, please wait for about three minutes to cancel the protection before -10-Please try to use the 1/4 output or lower when rapid shooting is needed to prevent the effect on the shooting. 11. Menu Access of Camera (only for the more recent Canon models) For the more recent models of Canon supporting the menu access, you can set some advanced functions of TX through the camera menu. For example, you can set the pre-curtain sync, rear-curtain sync, exposure compensation, exposure bracketing.

Set the AE-L/AF-L function as FV Lock on the camera before using this function. At this time, you can aim at your desired object in the viewfinder and then press the AE-L key or AF-L key, in such case, the flash light will pre-flash to get the reading of flash exposure for the object; after you have confirmed the scene frame, press the shutter. (This function can only be available when your camera supports it; for the setting of AE-L and To use this function, cover the subject for which flash exposure will be locked at the center of the viewfinder of camera, press the button <*> of the flash exposure lock, and the flash light will pre-flash and the camera will calculate the appropriate flash output data. Now you have some time for recomposition, after which, you can take photo. (The function can be used only when it is supported by your camera. For the setting method, refer

TTL auto flash or manual Level 7 light quantity output control with 1/3 stop increment, and there is a Flash control total of 19-level fine-tuning. -15-Additional features Rear-curtain sync, FEC, FEB $72{\times}135{\times}85mm$ Dimensions

250g

• The connection pairing hasn't been made for RX and TX:

• The batteries of RX or TX are running low:

• The external radio interference is too strong:

• RX and TX aren't placed in the right position:

4. Underexposure or overexposure of photo

compensation or exposure compensation.

5. The state of TX or RX is abnormal.

connection pairing, and then make the connection pairing again.

2. The signals between TX and RX are unstable. If the use of the process, PILOT indicator on TX will blink, indicating signal of the current use of the channel is unstable. Please check whether the antenna of TX has been erected and perpendicular to the ground, and whether the receiving module of RX speedlite is opposite to the TX; try to change the communication channels. 3. AF LED of TX doesn't work -16-

Please try to change the wireless channel by the [CH] button on the TX panel.

Please place the RX and TX within the range of radio transmission.

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